

# Circular Connector Harax M12 L4 M D-code



| Part number        | 21 03 281 1405                               |
|--------------------|--|
| Specification      | Circular Connector Harax M12 L4 M D-<br>code |
| HARTING eCatalogue | https://b2b.harting.com/21032811405          |

Image is for illustration purposes only. Please refer to product description.

#### Identification

| Category       | Connectors              |
|----------------|-------------------------|
| Series         | Circular connectors M12 |
| Identification | M12-L                   |
| Element        | Cable connector         |
| Specification  | Straight                |

## Version

| Termination method | HARAX <sup>®</sup> connection technology |
|--------------------|--|
| Gender             | Male                                     |
| Shielding          | Shielded                                 |
| Number of contacts | 4  |
| Coding             | D-coding                                 |
| Locking type       | Screw locking                            |
| Details            | For Fast Ethernet applications only      |

## **Technical characteristics**

| Conductor cross-section | 0.14 0.34 mm² |
|-------------------------|---------------|
| Conductor cross-section | AWG 26 AWG 22 |
| Wire outer diameter     | ≤2 mm         |
| Rated current           | 4 A           |
| Rated voltage           | 50 V          |
| Rated impulse voltage   | 1.5 kV        |
| Pollution degree        | 3             |

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#### **Technical characteristics**

| Transmission characteristics              | Cat. 5 Class D up to 100 MHz |
|---|------------------------------|
| Overvoltage category                      | III                          |
| Data rate                                 | 10 Mbit/s<br>100 Mbit/s      |
| Insulation resistance                     | >10 <sup>8</sup> Ω           |
| Contact resistance                        | ≤10 mΩ                       |
| Tightening torque                         | 0.6 Nm                       |
| Wrench size (knurled screw / knurled nut) | 17                           |
| Limiting temperature                      | -40 +85 °C                   |
| Mating cycles                             | ≥100                         |
| Degree of protection acc. to IEC 60529    | IP65 / IP67 mated condition  |
| Cable diameter                            | 4.5 8.8 mm                   |
| Isolation group                           | I (600 ≤ CTI)                |

# Material properties

| Material (insert)                    | Polyamide (PA)   |
|--------------------------------------|--|
| Material (contacts)                  | Brass  |
| Surface (contacts)                   | Au over Ni Mating side                                 |
| Material (hood/housing)              | Zinc die-cast  |
| RoHS                                 | compliant with exemption                               |
| RoHS exemptions                      | 6(c): Copper alloy containing up to 4 % lead by weight |
| ELV status                           | compliant with exemption                               |
| China RoHS                           | 50   |
| REACH Annex XVII substances          | Not contained  |
| REACH ANNEX XIV substances           | Not contained  |
| REACH SVHC substances                | Yes  |
| REACH SVHC substances                | Lead   |
| ECHA SCIP number                     | 0d7d3693-d625-47ab-934a-d241bf72c86e                   |
| California Proposition 65 substances | Yes  |
| California Proposition 65 substances | Lead<br>Nickel<br>Naphthalene                          |
| Fire protection on railway vehicles  | EN 45545-2 (2020-08)                                   |
| Requirement set with Hazard Levels   | R26  |

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#### Specifications and approvals

| Specifications                 | IEC 61076-2-101  |
|--------------------------------|--|
| UL / CSA                       | UL 1977 ECBT2.E102079<br>CSA-C22.2 No. 182.3 ECBT8.E102079 |
| PROFINET                       | Yes  |
| Commercial data                |  |
| Packaging size                 | 1  |
| Net weight                     | 50 g   |
| Country of origin              | Germany  |
| European customs tariff number | 85366990   |
| GTIN                           | 5713140137462  |
| eCl@ss                         | 27440116 Circular connector (for field assembly)           |

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